

Concept

The MIL HNDBK 1191 has established criteria for illumination levels of various rooms. This criteria takes into consideration the importance of visual performance, nature of the visual task, requirements for speed and accuracy in performing the visual task, nature or reflectance of the subject task material and the age of the occupant. These guidelines should be employed in the design or redesign of any health facility. While it may not be feasible to adjust the light level in facility during the course of a modest renovation, facilities that are completely reworked shall meet the MIL HNDBK 1191 standard.

Color rendition plays a role equally important to luminance in the rendering of care. In waiting rooms, as well as in operations spaces, color rendition must be as accurate as possible (approximating daylight). Consistency in color rendition of lamps among fixtures in a room is critical.

One aspect of the lighting in Germany has to do with the fluorescent light fixtures available locally. Many facilities surveyed have fixtures in offices and exam rooms that may require ten seconds to light. Because of the success level of the “lights out on exit” program, it can be disorienting to walk into a room, throw a switch and not see an immediate response, especially if one is used to U.S. standards. Evidently, this delay is common in Europe due to standardization of a ballast that requires warm-up. It may be possible to replace these fixtures with a faster unit, or to put some spaces on motion detectors to allow for lights to operate automatically.

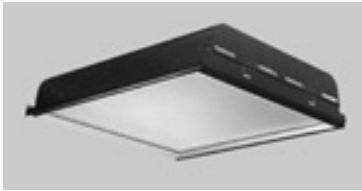
Specification

Lighting fixtures selected are based upon criteria appropriate to intended use. During renovation of spaces, facilities may opt to match existing lighting fixtures, assuming they are energy efficient and provide an even level of illumination in the space. New lighting fixtures are to be based upon a 2'x2' fluorescent fixture. Fluorescent fixtures are to be recessed in lay-in ceilings or hard-surface ceilings (or can be surface-mounted on hard-surface ceilings). Lenses shall be prismatic translucent plastic in overhead applications, and milk-white translucent in wall mounted applications.

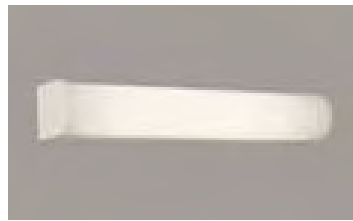
Decorative lighting shall be based upon a fluorescent fixture wherever possible. Decorative fixtures shall be heavy construction with thick glass or polycarbonate lenses where required. Accent lighting such as wall washers and down lights shall also be based upon a fluorescent fixture. Wall-mounted general lighting (located at hand sinks) shall be provided with a milk-white translucent lens (not transparent) or a face plate to reduce glare and harshness. Wall sconces are to be ADA compliant, unless installed 80"H above finished floor.

The following lighting fixture selections are typical and meant to set design direction only. Manufacturer information is supplied for reference only.

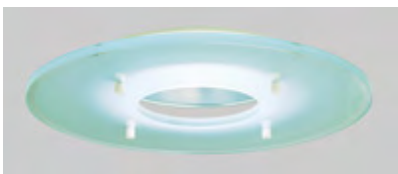
Direct Overhead 2' x 2' Recessed 2-lamp Fluorescent fixture for General Application:



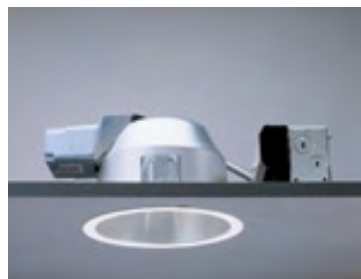
Wall Mounted Patient Lighting fixture for use in Patient Rooms and above handwashing sinks:



Decorative Downlighting (using fluorescent lamps) to be used above Transaction Counters:



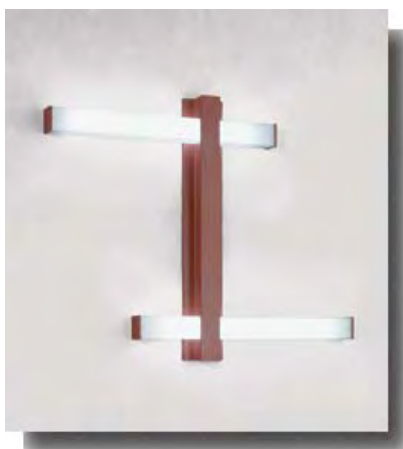
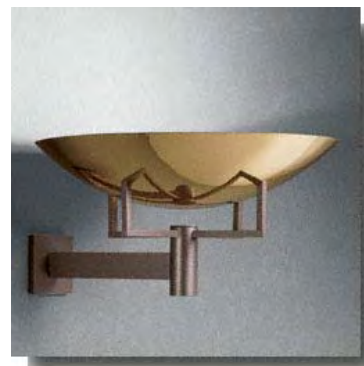
(Glass Disc is added as an accessory)



2-lamp wall washer to be used in Public Corridors or in Waiting Spaces:



Wall-mounted Decorative Lighting (most accept compact fluorescent lamps):



Patient Room Lighting (features 4-functions - reading/exam/charting/night light):



Manufacturers' Representation:**Eurofase Lighting**

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2100 Stemmons Freeway
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FLOS Lighting GMBH

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Visa Lighting

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Vista Lighting

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